BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Improvements to Roads And Drains At Mallasandra Colony Surrounding Area In Ward No.13 Shettyhalli Sub Division

DASARAHALLI DIVISION

EMB

1st & Final Bill

Scanned with CamScanner

Name of work:Improvements to Roads And Drains At Mallasandra Colony Surrounding Area In Ward No.13 Shettyhalli Sub Division

Pre measurements

Item No	Pre measurement recorded on: / Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3.								
	Desilt								
	Mallasandra Main road-RHS								
	From 5th-4th cross	1	23.00			0.60	0.45	6.21	
	From 4th-3rd cross	1	25.00			0.60	0.45	6.75	
	From 3rd-2nd cross	1	21.00			0.60	0.45	5.67	
	From 2nd-1st cross	1	20.00			0.60	0.45	5.40	
	From 1st cross	1	19.00			0.60	0.45	5.13	
	From Shettyhalli Main road-RHS								
	From 3rd-4th cross	1	26.00			0.60	0.50	7.80	
	From 4th-5th cross	1	16.00			0.60	0.55	5.28	
	1st cross								
	LHS	1	30.00			0.60	0.45	8.10	
		1	2.00			0.60	0.55	0.66	
	2nd cross								
	LHS	1	30.00			0.60	0.40	7.20	
		1	30.00			0.60	0.45	8.10	
	RHS	1	30.00			0.60	0.55	9.90	
		1	10.00			0.60	0.50	3.00	
	3rd cross								
	LHS	1	30.00			0.60	0.55	9.90	
	RHS	1	30.00			0.60	0.50	9.00	
	5th cross								
	LHS	1	30.00			0.60	0.55	9.90	
		1	28.00			0.60	0.45	7.56	
	RHS	1	30.00			0.60	0.50	9.00	
		1	28.00			0.60	0.55	9.24	
	For RCC drain								
	Mallasandra								
	7th Cross From Panchamukhi Temple Main Road								
	LHS	1	15.00			1.10	1.00	16.50	
		1	15.00			1.10	1.00	16.50	
		1	4.50			1.10	1.00	4.95	
	RHS								
		1	15.00			1.10	1.00	16.50	
		1	15.00			1.10	1.00	16.50	
		1	4.50			1.10	1.00	4.95	
	6th Cross From Panchamukhi Temple Main Road								
	RHS								
		1	30.00			1.10	1.00	33.00	
		1	2.50			1.10	1.00	2.75	
		1	17.80			0.75	1.00	13.35	
	For RCC Culverts								
	Culvert at 1st cross	1	5.70			2.00	1.00	11.40	
	Culvert at 4th cross	1	4.20			2.20	1.00	9.24	
	Culvert at 7th cross	1	6.15			2.00	1.00	12.30	
	Culvert at 9th cross	1	5.00			2.00	1.00	10.00	
	Culvert at 5th cross	1	6.50			2.00	1.00	13.00	

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike,
Shettyhalli Division, Bangalore-54

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Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
	For SSM Wall								
	At Mallasandra Govt School	1	10.40			0.90	1.00	9.36	
	For CC Road								
	Mallasandra								
	7th Cross From Panchamukhi Temple Main Road								
		1	15.00	5.60	5.20	5.40	0.30	24.30	
		1	15.00	5.20	4.50	4.85	0.30	21.83	
		1	4.50	4.50	4.50	4.50	0.30	6.08	
	Approach	1	3.60	1.20	1.20	1.20	0.30	1.30	
	5th Cross From Dead End								
		1	15.00	4.00	3.90	3.95	0.30	17.78	
		1	11.30	3.90	4.70	4.30	0.30	14.58	
		1	13.60	4.70	5.80	5.25	0.30	21.42	
		1	7.15	4.70	4.20	4.45	0.30	9.55	
		1	8.60	4.80	4.10	4.45	0.30	11.48	
		1	16.00	3.80	3.60	3.70	0.30	17.76	
		1	14.40	4.45	4.30	4.38	0.30	18.90	
	2nd cross from Main road								
		1	15.00	5.10	4.90	5.00	0.30	22.50	
		1	15.00	4.90	4.60	4.75	0.30	21.38	
		1	11.60	4.60	3.80	4.20	0.30	14.62	
	3rd cross from Main road								
		1	10.50	5.10	5.35	5.23	0.30	16.46	
	1st Cross From Main road								
		2	15.00	1.10	1.15	1.13	0.30	10.13	
		2	7.50	1.20	1.20	1.20	0.30	5.40	
		1	5.45	3.40	3.70	3.55	0.30	5.80	
	11th Cross From Main road								
		1	18.60	3.75	4.50	4.13	0.30	23.02	
	Bangalore One Road								
		1	5.40	0.90	1.20	1.05	0.30	1.70	
		1	1.60	1.00	1.00	1.00	0.30	0.48	
		1	7.15	1.55	1.20	1.38	0.30	2.95	
		1	15.00	1.40	2.00	1.70	0.30	7.65	
		1	16.50	2.00	1.50	1.75	0.30	8.66	
		1	16.50	2.20	1.80	2.00	0.30	9.90	
		1	13.40	1.50	1.30	1.40	0.30	5.63	
	Deductions								
	7th Cross From Panchamukhi Temple Main Road								
	Man Hole	-2	(3.142*0.9*0.9)/4				0.30	-0.38	
	Steps	-1	0.70	0.40	0.40	0.40	0.30	-0.08	
	Chamber	-1	0.60	0.60	0.60	0.60	0.30	-0.11	
	5th Cross From Dead End								
	Electric Pole	-1	0.20	0.20	0.20	0.20	0.30	-0.01	
	Trees Area	-1	2.00	0.60	0.60	0.60	0.30	-0.36	
		-1	1.10	0.70	0.70	0.70	0.30	-0.23	
		-1	0.50	0.40	0.40	0.40	0.30	-0.06	

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike,
Dasarahalli Division, Bangalore-57

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Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
		-2	0.30	0.30	0.30	0.30	0.30	-0.05	
	2nd cross from Main road								
	Man Hole	-1		(3.142*0.9*0.9)/4			0.30	-0.19	
	Borewell	-3		(3.142*0.4*0.4)/4			0.30	-0.12	
	3rd cross from Main road								
	Tank	-1	1.30	1.30	1.30	1.30	0.30	-0.51	
							Present Qty	**643.21**	**Cum**

10/05/20

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub division

27/5

Scanned with CamScanner

Name of work: Improvements to Roads And Drains At Mallasandra Colony Surrounding Area In Ward No.13 Shettyhalli Sub Division

Detailed Measurements

	Detailed Measurement Recorded on:						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
2	Removing And Refixing stone slabs of drains and pointing in C.M (1:3)						
	Mallasandra						
	1st cross						
	LHS	1	30.00	0.90		27.00	
		1	2.00	0.90		1.80	
	2nd cross						
	LHS	1	30.00	0.90		27.00	
		1	25.00	0.90		22.50	
	RHS	1	30.00	0.90		27.00	
		1	5.00	0.90		4.50	
	3rd cross						
	LHS	1	24.00	0.90		21.60	
	RHS	1	24.00	0.90		21.60	
	5th cross						
	LHS	1	25.00	0.90		22.50	
		1	24.00	0.90		21.60	
	RHS	1	25.00	0.90		22.50	
		1	24.00	0.90		21.60	
					Present Qty	**241.20**	**Sqm**

12/08/2020

Assistant Engineer
Ward No.13

27/8

Asst. Executive Engineer,
Shettyhalli Sub division

Scanned with CamScanner

Name of work:Improvements to Roads And Drains At Mallasandra Colony Surrounding Area In Ward No.13 Shettyhalli Sub Division

	Pre Measurements						
	Pre measurement recorded on:						
em No	**Discription of Item**	**No**	**Length**	**Breadth**	**Depth**	**Qty**	**Unit**
3	Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305.						
	For Stage						
		1	11.00	3.75	0.90	37.13	
					Present Qty	**37.13**	**Cum**

17/05/20

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub division

27/5

Scanned with CamScanner

Name of work:Improvements to Roads And Drains At Mallasandra Colony Surrounding Area In Ward No.13 Shettyhalli Sub Division

	Pre measurements								
	Pre measurement recorded on:								
Item No	**Discription of Item**	**No**	**Length**	**B1**	**B2**	**Avg Breadth**	**Depth**	**Qty**	**Unit**
4	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.								
	For RCC drain								
	Mallasandra								
	7th Cross From Panchamukhi Temple Main Road								
	LHS	1	15.00			1.10	0.15	2.48	
		1	15.00			1.10	0.15	2.48	
		1	4.50			1.10	0.15	0.74	
	RHS								
		1	15.00			1.10	0.15	2.48	
		1	15.00			1.10	0.15	2.48	
		1	4.50			1.10	0.15	0.74	
	6th Cross From Panchamukhi Temple Main Road								
	RHS								
		1	30.00			1.10	0.15	4.95	
		1	2.50			1.10	0.15	0.41	
		1	17.80			0.75	0.15	2.00	
	For RCC Culverts								
	Culvert at 1st cross	1	5.70			2.00	0.15	1.71	
	Culvert at 4th cross	1	4.20			2.20	0.15	1.39	
	Culvert at 7th cross	1	6.15			2.00	0.15	1.85	
	Culvert at 9th cross	1	5.00			2.00	0.15	1.50	
	Culvert at 5th cross	1	6.50			2.00	0.15	1.95	
	For SSM Wall								
	At Mallasandra Govt School	1	10.40			0.90	0.15	1.40	
	Platform	1	11.00		(1.2+4+6)/3		0.15	6.15	
	For CC Road								
	Mallasandra								
	7th Cross From Panchamukhi Temple Main Road								
		1	15.00	5.60	5.20	5.40	0.15	12.15	
		1	15.00	5.20	4.50	4.85	0.15	10.91	
		1	4.50	4.50	4.50	4.50	0.15	3.04	
	Approach	1	3.60	1.20	1.20	1.20	0.15	0.65	
	5th Cross From Dead End								
		1	15.00	4.00	3.90	3.95	0.15	8.89	
		1	11.30	3.90	4.70	4.30	0.15	7.29	
		1	13.60	4.70	5.80	5.25	0.15	10.71	
		1	7.15	4.70	4.20	4.45	0.15	4.77	
		1	8.60	4.80	4.10	4.45	0.15	5.74	
		1	16.00	3.80	3.60	3.70	0.15	8.88	
		1	14.40	4.45	4.30	4.38	0.15	9.45	

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Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
	2nd cross from Main road								
		1	15.00	5.10	4.90	5.00	0.15	11.25	
		1	15.00	4.90	4.60	4.75	0.15	10.69	
		1	11.60	4.60	3.80	4.20	0.15	7.31	
	3rd cross from Main road								
		1	10.50	5.10	5.35	5.23	0.15	8.23	
	1st Cross From Main road								
		2	15.00	1.10	1.15	1.13	0.15	5.06	
		2	7.50	1.20	1.20	1.20	0.15	2.70	
		1	5.45	3.40	3.70	3.55	0.15	2.90	
	11th Cross From Main road								
		1	18.60	3.75	4.50	4.13	0.15	11.51	
	Bangalore One Road								
		1	5.40	0.90	1.20	1.05	0.15	0.85	
		1	1.60	1.00	1.00	1.00	0.10	0.16	
		1	7.15	1.55	1.20	1.38	0.15	1.47	
		1	15.00	1.40	2.00	1.70	0.15	3.83	
		1	16.50	2.00	1.50	1.75	0.15	4.33	
		1	16.50	2.20	1.80	2.00	0.15	4.95	
		1	13.40	1.50	1.30	1.40	0.15	2.81	
	Deductions								
	7th Cross From Panchamukhi Temple Main Road								
	Man Hole	-2		(3.142*0.9*0.9)/4			0.15	-0.19	
	Steps	-1	0.70	0.40	0.40	0.40	0.15	-0.04	
	Chamber	-1	0.60	0.60	0.60	0.60	0.15	-0.05	
	5th Cross From Dead End								
	Electric Pole	-1	0.20	0.20	0.20	0.20	0.15	-0.01	
	Trees Area	-1	2.00	0.60	0.60	0.60	0.15	-0.18	
		-1	1.10	0.70	0.70	0.70	0.15	-0.12	
		-1	0.50	0.40	0.40	0.40	0.15	-0.03	
		-2	0.30	0.30	0.30	0.30	0.15	-0.03	
	2nd cross from Main road								
	Man Hole	-1		(3.142*0.9*0.9)/4			0.15	-0.10	
	Borewell	-3		(3.142*0.4*0.4)/4			0.15	-0.06	
	3rd cross from Main road								
	Tank	-1	1.30	1.30	1.30	1.30	0.15	-0.25	
							Present Qty	**194.18**	**Cum**

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettynalli Sub division

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Name of work:Improvements to Roads And Drains At Mallasandra Colony Surrounding Area In Ward No.13 Shettyhalli Sub Division

Detailed measurements

Detailed measurement recorded on:

Item No	Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm								
	For Bottom raft								
	For RCC drain								
	Mallasandra								
	7th Cross From Panchamukhi Temple Main								
	LHS	1	15.00	0.95	0.15	0.15	0.15	2.14	
		1	15.00	0.95	0.15	0.15	0.15	2.14	
		1	4.50	0.95	0.15	0.15	0.15	0.64	
	RHS								
		1	15.00	0.95	0.15	0.15	0.15	2.14	
		1	15.00	0.95	0.15	0.15	0.15	2.14	
		1	4.50	0.95	0.15	0.15	0.15	0.64	
	6th Cross From Panchamukhi Temple Main								
	RHS								
		1	30.00	0.95	0.15	0.15	0.15	4.28	
		1	2.50	0.95	0.15	0.15	0.15	0.36	
		1	17.80	0.75	0.15	0.15	0.15	2.00	
	For RCC Culverts								
	Culvert at 1st cross	1	5.70	1.50	0.20	0.20	0.20	1.71	
	Culvert at 4th cross	1	4.20	1.80	0.20	0.20	0.20	1.51	
	Culvert at 7th cross	1	6.15	1.50	0.20	0.20	0.20	1.85	
	Culvert at 9th cross	1	5.00	1.50	0.20	0.20	0.20	1.50	
	For RCC Wall								
	For RCC drain								
	7th Cross From Panchamukhi Temple Main Road								
	LHS	2	15.00	0.15	0.65	0.65	0.65	2.93	
		2	15.00	0.15	0.65	0.70	0.68	3.04	
		2	4.50	0.15	0.70	0.60	0.65	0.88	
	RHS								
		2	15.00	0.15	0.65	0.65	0.65	2.93	
		2	15.00	0.15	0.65	0.70	0.68	3.04	
		2	4.50	0.15	0.70	0.60	0.65	0.88	
	6th Cross From Panchamukhi Temple Main Road								
	RHS								
		2	30.00	0.15	0.60	0.65	0.63	5.63	

24/05/22

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Item No	Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
		2	2.50	0.15	0.65	0.65	0.65	0.49	
		2	17.80	0.15	0.65	0.65	0.65	3.47	
	For RCC Culverts								
	Culvert at 1st cross	2	5.70	0.30	0.60	0.60	0.60	2.05	
	Culvert at 4th cross	2	4.20	0.45	0.60	0.60	0.60	2.27	
	Culvert at 7th cross	2	6.15	0.30	0.60	0.60	0.60	2.21	
	Culvert at 9th cross	2	5.00	0.30	0.60	0.60	0.60	1.80	
	Ramp For RCC Culverts								
	Culvert at 1st cross	2	5.70	0.60	0.15	0.15	0.15	1.03	
	Culvert at 4th cross	2	4.20	0.60	0.15	0.15	0.15	0.76	
	Culvert at 7th cross	2	6.15	0.60	0.15	0.15	0.15	1.11	
	Culvert at 9th cross	2	5.00	0.60	0.15	0.15	0.15	0.90	
	Deck Slab for Culvert at 5th cross								
		1	6.50	1.50	0.20	0.20	0.20	1.95	
	For Vent Portion	1	6.50	0.60	0.15	0.15	0.15	0.59	
	Deck Slab For Drain								
	Mallasandra Main road-RHS								
	From 5th-4th cross								
		1	1.20	0.90	0.90	0.90	0.20	0.22	
		1	6.20	1.00	0.90	0.95	0.20	1.18	
		1	2.80	0.90	0.90	0.90	0.20	0.50	
		1	4.80	0.80	0.90	0.85	0.20	0.82	
		1	7.90	1.20	1.15	1.18	0.20	1.86	
	From 4th-3rd cross								
		1	6.15	1.00	0.95	0.98	0.20	1.20	
		1	4.15	0.90	0.90	0.90	0.20	0.75	
		1	4.00	0.90	0.90	0.90	0.20	0.72	
		1	1.75	0.40	0.40	0.40	0.20	0.14	
		1	3.60	0.90	1.00	0.95	0.20	0.68	
		1	1.50	1.00	0.95	0.98	0.20	0.29	
		1	3.00	1.00	1.00	1.00	0.20	0.60	
	From 3rd-2nd cross								
		1	8.20	1.10	0.90	1.00	0.20	1.64	
		1	8.40	0.90	0.95	0.93	0.20	1.55	
		1	3.75	0.90	0.90	0.90	0.20	0.68	
	From 2nd-1st cross								
		1	5.30	1.00	0.95	0.98	0.20	1.03	
		1	4.40	1.00	0.95	0.98	0.20	0.86	
		1	6.00	0.95	1.20	1.08	0.20	1.29	
		1	4.00	0.90	0.90	0.90	0.20	0.72	
	From 1st cross-Shettyhalli Main road								
		1	6.70	1.00	0.90	0.95	0.20	1.27	
		1	4.30	0.90	0.90	0.90	0.20	0.77	
		1	7.60	0.90	0.90	0.90	0.20	1.37	
	From Shettyhalli Main road-RHS								
	From 1st-2nd cross								
		1	3.60	1.00	0.75	0.88	0.20	0.63	

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tem No	Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
	From 3rd-4th cross								
		1	6.80	0.90	0.90	0.90	0.20	1.22	
		1	3.10	1.00	0.90	0.95	0.20	0.59	
		1	8.70	0.90	0.90	0.90	0.20	1.57	
		1	2.50	1.00	0.95	0.98	0.20	0.49	
		1	4.45	0.90	1.00	0.95	0.20	0.85	
	From 4th-5th cross								
		1	1.90	0.90	0.90	0.90	0.20	0.34	
		1	3.00	0.90	0.90	0.90	0.20	0.54	
		1	4.50	0.90	0.80	0.85	0.20	0.77	
		1	6.30	1.00	0.70	0.85	0.20	1.07	
	Ramp for Deck Slab								
	Mallasandra Main road-RHS								
	From 5th-4th cross								
		1	1.20	0.10	0.10	0.10	0.15	0.02	
		1	6.20	0.10	0.10	0.10	0.15	0.09	
		1	2.80	0.10	0.10	0.10	0.15	0.04	
		1	4.80	0.10	0.10	0.10	0.15	0.07	
		1	7.90	0.10	0.10	0.10	0.15	0.12	
	From 4th-3rd cross								
		1	6.15	0.10	0.10	0.10	0.15	0.09	
		1	4.15	0.10	0.10	0.10	0.15	0.06	
		1	4.00	0.10	0.10	0.10	0.15	0.06	
		1	1.75	0.10	0.10	0.10	0.15	0.03	
		1	3.60	0.10	0.10	0.10	0.15	0.05	
		1	1.50	0.10	0.10	0.10	0.15	0.02	
		1	3.00	0.10	0.10	0.10	0.15	0.05	
	From 3rd-2nd cross								
		1	8.20	0.10	0.10	0.10	0.15	0.12	
		1	8.40	0.10	0.10	0.10	0.15	0.13	
		1	3.75	0.10	0.10	0.10	0.15	0.06	
	From 2nd-1st cross								
		1	5.30	0.10	0.10	0.10	0.15	0.08	
		1	4.40	0.10	0.10	0.10	0.15	0.07	
		1	6.00	0.10	0.10	0.10	0.15	0.09	
		1	4.00	0.10	0.10	0.10	0.15	0.06	
	From 1st cross-Shettyhalli Main road								
		1	6.70	0.10	0.10	0.10	0.15	0.10	
		1	4.30	0.10	0.10	0.10	0.15	0.06	
		1	7.60	0.10	0.10	0.10	0.15	0.11	
	From Shettyhalli Main road-RHS								
	From 3rd-4th cross								
		1	6.80	0.10	0.10	0.10	0.15	0.10	
		1	3.10	0.10	0.10	0.10	0.15	0.05	
		1	8.70	0.10	0.10	0.10	0.15	0.13	
		1	2.50	0.10	0.10	0.10	0.15	0.04	
		1	4.45	0.10	0.10	0.10	0.15	0.07	

Scanned with CamScanner

Item No	Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
	From 4th-5th cross								
		1	1.90	0.10	0.10	0.10	0.15	0.03	
		1	3.00	0.10	0.10	0.10	0.15	0.05	
		1	4.50	0.10	0.10	0.10	0.15	0.07	
		1	6.30	0.10	0.10	0.10	0.15	0.09	
							Present Qty	91.36	Cum

30/05/20

Assistant Engineer
Ward No.13

30/05/20

30/5

Asst. Executive Engineer,
Shettyhalli Sub division

Scanned with CamScanner